

CLAIMS:

5        1. Brazed condenser for an air conditioner comprising a block of tubes and fins, two collecting tubes between which said block is arranged, a tube-shaped collector which is mounted laterally on one of the collecting tubes, each collecting tube being a prefabricated one-piece tube, and tack weld seams by 10 which each collecting tube is connected with the collector.

2. Condenser according to Claim 1, wherein the tack weld seams are constructed as TIG seams or laser weld seams.

15        3. Condenser according to Claim 1, wherein at least one of the collecting tubes and the tube-shaped collector is provided with at least one plastic deformation which forms a contact surface for another of the collecting tubes and the tube-shaped collector.

20        4. Condenser according to Claim 3, wherein the plastic deformation is a recess of limited axial length.

25        5. Condenser according to Claim 4, wherein an air gap is left along most of the length of the collecting tube and the tube-shaped collector.

5           6. Condenser according to Claim 3, wherein a longitudinal  
groove is recessed into one of the tubes.

10           7. Condenser according to Claim 3, wherein, in an area of  
the deformation, at least one connection opening is provided  
between one of the collecting tubes and a respective tube-shaped  
collector.

15           8. Condenser according to Claim 1, and further comprising  
a coaxial tube piece by which the collector is lengthened, the  
coaxial tube piece being provided on its outside with a  
longitudinal groove forming a contact surface for the collecting  
tube.

20           9. Condenser according to Claim 8, wherein the coaxial  
tube piece defines an extruded profile.

25           10. Condenser according to Claim 8, wherein the coaxial  
tube piece is provided with an internal thread for accommodating  
a plug.

11. Condenser according to Claim 3, and further comprising  
a sleeve inserted into the collector and provided with an  
internal thread for accommodating a plug.

5           12. Condenser according to Claim 6, wherein the one of the  
tubes is the collecting tube.

10           13. Condenser according to Claim 2, wherein at least one  
of the collecting tubes and the tube-shaped collector is provided  
with at least one plastic deformation which forms a contact  
surface for another of the collecting tubes and the tube-shaped  
collector.

15           14. Condenser according to Claim 4, wherein, in an area of  
the deformation, at least one connection opening is provided  
between one of the collecting tubes and a respective tube-shaped  
collector.

20           15. Condenser according to Claim 5, wherein, in an area of  
the deformation, at least one connection opening is provided  
between one of the collecting tubes and a respective tube-shaped  
collector.

25           16. Condenser according to Claim 2, and further comprising  
a coaxial tube piece by which the collector is lengthened, the  
coaxial tube piece being provided on its outside with a  
longitudinal groove forming a contact surface for the collecting  
tube.

5           17. Condenser according to Claim 9, wherein the coaxial tube piece is provided with an internal thread for accommodating a plug.

10           18. Condenser according to Claim 4, and further comprising a sleeve inserted into the collector and provided with an internal thread for accommodating a plug.

15           19. A method of forming a condenser for an air conditioner comprising:

                 prefabricating a one-piece collecting tube,  
                 aligning the collecting tube and a collector with one another in a clamping device,  
                 fixedly connecting the collecting tube and the collector together with tack weld seams to form a collecting tube and collector assembly,  
                 removing the assembly from the clamping device, and  
                 brazing the assembly to form the condenser.

20           20. A method according to Claim 19, and further comprising leaving an insulating air gap along the collecting tube and the collector after fixedly connecting them together.